Annual Drinking Water Quality Report

MALROA

IL1150300

nnual Water Quality Report for the period of January 1 to ecember 31, 2015

his report is intended to provide you with important information about your drinking water and the efforts made yothe water system to provide safe drinking water.

he source of drinking water used by

or more information regarding this report contact:

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ste informe contiene información muy importante sobre l agua que usted bebe. Tradútoslo ó hable con alguien ue lo entienda bien.

Source of Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pickup substances resulting from the presence of minmals or from human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and

 Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or dimestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe Drinking Water Ebotline at (800) 426-4791.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population.

Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HTV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Botline (800-426-4751).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. We cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.eps.gov/safewater/lead.

Nitrate (measured as Nitrogen)	2015	0.658	0.289 - 0.658	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	
Nitrite [measured as	2015	0.369	0.369 - 0.369	1	1	ррш	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	
Sodium	2015	172	172 - 172			ppm	N	Prosion from naturally occurring deposits: Used in water softener regeneration.	
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Desected	NCLG	MCL	Units	Violation	Likely Source of Contamination	
Combined Radium 226/228	10/08/2013	1.33	1.33 - 1.33	0	5	pC1/L	N	Erosion of natural deposits.	
Gross alpha excluding raden and uranium	10/08/2013	1.5	1.5 - 1.5	O	15	pC1/L	н	Erosion of natural deposits.	

source Water Assessment

'e want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly cheduled meetings. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please stop y city Hell or call our water operator at 2/7 794/2012. To view a summary version of the completed Source Water Assessments, including: Importance of ource Water: Susceptibility to Contamination Determination: and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA rebsite at http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.or

Source of Water: MAROA To determine Maroa's susceptibility to groundwater contamination, a Well Site Survey, published in 1989 by the Illinois EPA, was reviewed. Based on the information contained in this document, five potential sources of groundwater contamination are present that could pose a hazard to groundwater pumped by the Maroa community water supply wells. These include a fertilizer/pesticide commercial application or warehouse, a nanufacturizing/processized of chemicals, two below dround fuel storages, and a well. Records indicate that the inactive well has been properly abandoned. Sased on information provided by the City of Naroa water supply officials, Shell Oil Co. and Edwards Pertilizer are no longer in business. The Illinois EPA has determined that Maroa Wells #2 and #3 are not susceptible to ICC, VCC, or SCC contamination. This determination is based on a number of criteria including; monitoring conducted at the wells; monitoring conducted at the entry point to the distribution system; and the available hydrogeologic data for the wells. In anticipation of the U.S. EPA's proposed Ground Water Rule, the Illinois EPA has determined that Maroa's community water supply wells are not community's wells are properly constructed with sound integrity and proper site conditions; there is a hydrogeologic parrier that restricts pathogen movement; all potential routes and sanitary defects have been mitigated such that the source water is adequately protected; monitoring data did not indicate a viral contamination threat. However, having stated this, the U.S. EPA is proposing to require States to identify systems in karst, gravel and fractured rock aquifer systems as sensitive. Water systems utilizing these aquifer types would be required to perform routine source water monitoring. Because the community's wells are constructed in a confined equifer, which have a dequated degree of protection to prevent the movement of pathogens into the wells, well hydraulics were not considered to be a significant factor in

2015 Regulated Contaminants Detected

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finitions:
:cion level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of ifety.

rion Level: The concentration of a contaminant which, if exceeded, triggers treatment of other requirements which a water system must follow.									
ead and Copper	Date Sampled	MCLG	Action Level	90th Percentile	# Sices Over AL	Units	Violation	Likely Source of Contamination	
opper	2015	1.3	1.3	0.505	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household	

ater Quality Test Results

aximum Concaminant Level Goal or MCLG:	The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
aximum Contaminant Level or MCL:	The highest level of a contaminant that is allowed in drinking water. HCLs are set as close to the MCLGs as feasible using the best available treatment technology.
aximum tesidual disinfectant level cal or MRDLG:	The level of a drinking water disinfectant below which there is no known or expected risk to ficith. MPING a reflect the benefits of the use of disinfectants to control microbial contaminants.
aximum residual disinfectant level or RDL:	The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
*finitions:	The following tables contain scientific terms and measures, some of which may require explanation.
ob:	micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
1:	nor applicable.
7g:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
om:	milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

ource Water Information

carce	Water Name	Type of Water	Report Status	Location
TLL 2	(47723)	GH		SOUTH OF PLANT
TLL 3	(47724)	GN		SE OF PLANT

Regulated Contaminants

Disinfectants and Disinfection By- Products	Collection Date	Highest Level Detected	Range of Levels Detected	HCLG	MCL	Units	Violation	Likely Source of Contamination	
Chlorine	12/31/2015	0.1	0.03 - 0.1	NRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.	
Haloacetic Acids (HAAS) ▼	2015	1	1.1 - 1.1	No goal for the total	60	ppb	N	By-product of drinking water disinfection.	
Total Tribslomethanes (TTEM)	2015	3	3.1 - 3.1	No goal for the total	80	ppb	N	By-product of drinking water disinfection.	
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	HCL	Units	Violation	Likely Source of Contamination	
Arsenic - While your drinking water meets FFA standards for arsenic, it does contain low levels of arsenic. FFAs standard balances the current understanding of arsenics possible health effects against the costs of removing arsenic from drinking water. EFA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other	2015	6	6.16 - 6.16	O	10	ррЬ	И	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.	
as skin damage and circulatory problems.									
Barium	2015	0.451	0.451 - 0.451	2	2	ppm	И	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.	
Fluoride	2615	0.828	0.828 - 0.828	4	4.0	ppm	н	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.	
Iron	2015	0.0762	0.6762 - 0.0762		1.0	ррш	И	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.	